

**BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
 MASTER OF SCIENCE ENGINEERING MANAGEMENT
 CURRICULUM OUTLINE - CLASS OF 2021, 2022, 2023**

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL	SPRING	SUMMER 1	SUMMER 2
Year 1	MATH1341 Calculus 1 for Engrs. 4 CHEM1151 General Chem for Engrs. 4 CHEM1153 Recitation for CHEM1151 0 GE1000 Intro to Eng'g. 1 GE1501 Cornerstone of Engineering 1 4 ENGW1111 College Writing 4	MATH1342 Calculus 2 for Engrs. 4 PHYS1151 Physics 1 for Engrs. 3 PHYS1152 Physics 1 Lab 1 PHYS1153 ILS for PHYS1151 1 GE1502 Cornerstone of Engineering 2 4 Elective General Elective 4	Vacation	Vacation
Year 2 AA	MATH2341 Diff. Eq./Lin. Alg. 4 PHYS1155 Physic 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 EECE2150 Circuits/Signals: Biomed Apps. 5 Elective General Elective 4	MATH2321 Calculus 3 for Engrs. 4 EECE2000 Intro to Eng'g. Coop 1 EECE2160 Embedded Design: Enabling Roboti 4 EECExxxx EE Fundamentals 4/5 Elective General Elective 4	Elective General Elective 4 Elective General Elective 4	Co-op
Year 2 BB	MATH2341 Diff. Eq./Lin. Alg. 4 PHYS1155 Physic 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 EECE2150 Circuits/Signals: Biomed Apps. 5 EECE2160 Embedded Design: Enabling Roboti 4 EECE2000 Intro to Eng'g. Coop 1	Co-op	Co-op	Elective General Elective 4 Elective General Elective 4
Year 3 AA	Co-op	EECExxxx EE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5 EECExxxx CE Fundamentals 4/5 EECE3468 Noise & Stoch. Proc. 4	Elective EECE Tech Elective 1 4 * ENGW3302 Adv. Writing Prof. 4	Co-op
Year 3 BB	MATH2321 Calculus 3 for Engrs. 4 EECExxxx EE Fundamentals 4/5 EECExxxx CE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5	Co-op	Co-op	Elective EECE Tech Elective 1 4 Elective General Elective 4
Year 4 YB	Co-op	EECE3000 Prof. Issues in Eng'g. 1 Elective EECE Tech Elective 2 4 EMGT5220 Engineering Project Mgmt 4 EMGT6225 Economic Decision Making 4 IEG200 Eng'g Prob. & Statistics 4	EECE4790 Capstone 1 4 Elective EECE Tech Elective 3 4	Vacation
Year 4 ZH	EECE3000 Prof. Issues in Eng'g. 1 EECExxxx EE Fundamentals 4/5 EECE3468 Noise & Stoch. Proc. 4 IEG200 Eng'g Prob. & Statistics 4 OR6205 Deterministic Op Research 4	Elective EECE Tech Elective 2 4 Elective EECE Tech Elective 3 4 EMGT5220 Engineering Project Mgmt 4 EMGT6225 Economic Decision Making 4	EECE4790 Capstone 1 4 Elective EECE Tech Elective 4 4	Vacation
Year 5 YB	Elective Technical Elective 4 OR6205 Deterministic Op Research 4 Graduate Elective 4 Graduate Elective 4	EECE4792 Capstone Design 2 4 Graduate Elective 4 Graduate Elective 4		
Year 5 ZH	Elective General Elective Graduate Elective Graduate Elective ENGW3302 Adv. Writing for Prof. 4	EECE4792 Capstone Design 2 4 Graduate Elective 4 Graduate Elective 4		

Revised March/2018

The Capstone Design Courses are taken as follows: (EECE4790 - Summer 1 and EECE4792 - Spring) OR (EECE4790 - Summer 2 and EECE4792 - Fall)
 * [ENGW3315](#) is an acceptable substitution for engineering majors.

NUpath requirements, Interpreting Culture (IC), Societies and Institutions (SI) and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements, and if these are not fulfilled in engineering courses, should use General Electives to do so. General Electives are academic, non-remedial, non-repetitive courses.

7 Required General Electives (A maximum of 2 Graduate Courses can be used to fulfill this requirement)

3 Required EE Fundamentals: EECE2412/2413 - Fundamentals Electronics 1 & lab AND EECE2520 - Fundamentals Linear Systems AND EECE 2530/2531 - Fundamentals Electromagnetics & lab

1 Required CE Fundamental: EECE2322/2323 - Fundamentals Digital Design & Lab OR EECE2540 - Fundamentals Networks OR EECE2560 - Fundamentals Algorithms

(CE Fundamentals not taken to meet the above requirement may also be taken as a technical elective)

Technical Elective Requirements: 4 EECE technical electives.

EECE2322, (EECE2540-EECE2750), EECE3154, (EECE3324-EECE3410), (EECE4512-EECE4698), (EECE4991-EECE4993), (EECE5515-EECE5698), GE4608, ENGR5670

Please check with your advisor when taking a general elective in overlapping disciplines:

Last Name A-L: Ellen Zierk- e.zierk@northeastern.edu

Last Name M-Z: Nicole Diamond - n.diamond@northeastern.edu

The registrar's website provides a listing of degree requirements and the DARS system provides a degree audit utility for students.

Requirements:

4 semesters of coursework at Northeastern University must be completed with a minimum GPA of 3.2 to join the BS/MS program.

Students will be required to meet with an undergraduate advisor and a graduate advisor to petition to enter the program.

BS/MSECE program is 9.5 semesters of coursework.

Notes:

Students who opt out of the MSECE part of the program will still need to complete the Spring semester of the fifth year to finish the capstone design project.

Students are encouraged to meet with their financial aid counselor and a customer service representative to review any financial questions.